



DEPARTMENT OF THE NAVY  
NAVAL FACILITIES ENGINEERING COMMAND  
1322 PATTERSON AVENUE, SE SUITE 1000  
WASHINGTON NAVY YARD DC 20374-5065

IN REPLY REFER TO:  
5100  
EICO/fbc  
22 JUL 2003

From: Commander, Naval Facilities Engineering Command HQ  
To: Department of the Army, U.S. Army Corps of Engineers, Washington, DC (CECW-EI)

Subj: BIENNIAL REPORT TO CONGRESS – STATUS OF THE NATIONAL DAM  
SAFETY PROGRAM

Ref: (a) U. S. Army Corps of Engineers Memorandum CECW-EI of 19 Mar 03

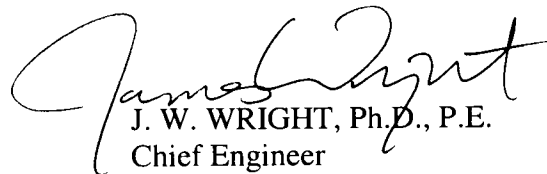
Encl: (1) Department of the Navy “2002-2003 Progress Report to FEMA on the  
Implementation of Federal Guidelines for Dam Safety,” of, 14 Jul 03

1. The National Dam Safety Program Act, Public Law 104-303 Section 205, of 12 October 1996 requires a biennial report on dam safety. Specifically, this act requires, “not later than 90 days after the end of each odd-numbered fiscal year, the Director (of FEMA) shall submit a report to Congress that describes the progress achieved by Federal agencies during the two preceding fiscal years in implementing the Federal Guidelines for Dam Safety.”

2. As requested in reference (a), we are pleased to submit our Biennial Report on Dam Safety provided as enclosure (1).

3. During the next two fiscal years, Naval Facilities Engineering Command intends to strengthen policy to increase the effectiveness of the Navy’s Dam Safety Program.

4. If you have any questions, my point of contact is Mr. Frank Cole who may be reached at [colefb@efdlant.navfac.navy.mil](mailto:colefb@efdlant.navfac.navy.mil) or 757-322-4203.

  
J. W. WRIGHT, Ph.D., P.E.  
Chief Engineer

Copy to:  
ASN (I&E)  
OPNAV (N46)  
USMC LFL (Paul Hubbell)  
EICO

**DEPARTMENT OF THE NAVY**

**2002-2003 PROGRESS REPORT TO FEMA**

**ON**

**THE IMPLEMENTATION OF FEDERAL  
GUIDELINES FOR DAM SAFETY**

**14 July 2003**

DEPARTMENT OF THE NAVY  
2002-2003 PROGRESS REPORT TO FEMA  
ON  
THE IMPLEMENTATION OF FEDERAL GUIDELINES FOR DAM SAFETY

The Director of the Federal Emergency Management Agency (FEMA) is responsible for reporting biennially to Congress on the status of the National Dam Safety Program and the progress of the Federal agencies in implementing the Federal Guidelines for Dam Safety (Guidelines). Each agency is required to provide FEMA with information on the status of its policies, standards, and procedures to bring their dam safety programs into conformance with the Guidelines.

**Introduction**

Briefly describe your agency's dam safety responsibility and jurisdiction. Highlight any changes in responsibility from the previous report.

Naval Facilities Engineering Command (NAVFAC) has assumed responsibility for implementing the dam safety program for the Department of the Navy. There are 31 candidate dams under the Navy jurisdiction for safety inspection. Appendix 1 provides a summary of these dams.

The following dams have been deleted since the previous report:

Finger Canyon Dam – BRAC  
Station Fish Pond Dam – BRAC  
Dredge Spoil Ponds Dam – BRAC  
Salt Water Reservoir Dam – BRAC  
Pilgrim Creek Dam – less than height/storage criteria

The following dams have been added since the previous report:

Del Monte Lake Dam  
Casa Linda Lake Dam  
Soil Conservancy Dist Dam #1 (Lake Gallimore Dam)  
Soil Conservancy Dist Dam (SWCD Seed Tick Dam)  
Lake Martha Dam  
NJ No Name No 1 (Bass Lake Dam)  
NJ No Name No 2 (Club House Lake Dam)  
Pickeral Pond Dam  
STP Dam  
Beaver Dam (New Jersey)  
Dalton Dam  
US Naval Proving Ground  
Lunga Dam  
Penniman Dam  
Beaver Dam (VA)  
Bigler Mill Dam  
Powell Dam  
Skimino Pond Dam  
Pond #11 Dam  
Roosevelt Pond Dam

## **Progress on Implementation of the Federal Guidelines for Dam Safety**

**The items discussed below focus on policy or activities that demonstrate either progress or lack of progress in compliance with the Guidelines. Please respond to the following items.**

### ***Organization, Administration, and Staffing.***

The candidate dams are monitored by civil and geotechnical engineers from the NAVFAC Engineering Field Divisions when a need arises. Staff is currently adequate. Program management responsibilities are executed by the Engineering Innovation and Criteria Office of NAVFAC.

### ***Dam Safety Training Activities.***

No training during this period. When required, training is provided by USACE.

### ***Dam Inventories.***

The Navy has a current inventory of dams reflecting the status of the dam and defining the associated risk. This information is contained in Appendix 1.

### ***Independent Reviews.***

Independent review is generally conducted internally as need arises. Utilization of external resources is indicated in Appendix 1.

### ***Inspection Programs.***

Inspections conducted since last report are indicated in Appendix 1.

### ***Dam Safety Rehabilitation Programs.***

None during this period.

### ***Management Effectiveness Reviews.***

None during this period.

### ***Dam Failures and Remedial Actions.***

None during this period.

### ***Emergency Action Planning.***

None during this period.

***Application of ICODS Technical Guidelines:*** When required, the Navy uses the Technical guidance developed by Interagency Committee on Dam Safety (ICODS):

Emergency Action Planning Guidelines for Dams

Federal Guidelines for Earthquake Analysis and Design of Dams

Federal Guidelines for Selecting and Accommodating Inflow Design Floods for Dams

***State Dam Safety Involvement.***

State participation is indicated in Appendix 1.

***Research and Development and Special Initiatives.***

None during this period.

***Public Concerns.***

None during this period.

**Impact on Agency Operation**

**Provide information on the impact of the Guidelines on agency operations, both positive and negative. Beneficial impacts can be expressed by reduced risk of loss of life and reduced potential for damage losses. Negative impacts can include such aspects as additional costs or time delays in regulatory approval or the provision of Federal financial assistance.**

***Budget Impact.***

None.

Future budget impact will occur because NAVFAC is currently reviewing its Dam Safety Program, will improve current policy to better define the program, and will review it's current inventory possibly leading toward more inspections.

***Impact on Contracting Procedures.***

None.

***Budget Allocation for Training/Education.***

Training for dam safety implementations is conducted within current training budget.

**APPENDIX 1 - DEPARTMENT OF THE NAVY 2002-2203 PROGRESS REPORT ON DAM SAFETY**

Dam Name	NID <sup>1</sup> ID	River	Installation	NID Height, ft	NID Storage, acre-ft	Hazard	Inspection Remarks
Pulgas Lake Dam	CA10130	Piedra De Lubre Creek	MCB Camp Pendleton, CA	40	125	L	Note 1
Lake O'Neill Dam	CA10131	Santa Margarita River Offstream	MCB Camp Pendleton, CA	8	1320	H	Note 1
Case Springs Dam	CA10133	Trib-San Onofre Creek	MCB Camp Pendleton, CA	25	67	L	Note 1
Del Monte Lake	TBP <sup>2</sup>	Unnamed Creek	NPS Monterey, CA	14	69	L	Note 2
Casa Linda Lake	FL00703	Trib-St Johns River	NAS Jacksonville, FL	12	60	L	Note 3
Fena Dam	GU82301	Fena River	US Naval Magazine, Guam	135	9500	H	Note 4
Greenwood Lake Dam	IN03007	First Creek	NSWC Crane, Indiana	55	29800	H	Note 5
Soil Conservancy Dist Dam #1 (Lake Gallimore Dam)	IN03008	Boggs Creek East Fork White	NSWC Crane, Indiana	26	6740	L	Note 5a
Soil Conservancy Dist Dam (SWCD Seed Tick Dam)	IN03009	Seed Tick Creek	NSWC Crane, Indiana	25	1751	L	Note 5a
Lake Martha Dam	MS01497	Seegar Creek	NAS Meridian, Miss	14	270	L	Note 6
Lake Helen Dam	MS01498	Trib Wrights Creek	NAS Meridian, Miss	18	130	L	Note 6a
Lake Lucille	MS02856	Trib Big Reed Creek	NAS Meridian, Miss	20	216	L	Note 6a
NJ No Name No 1 (Bass Lake)	NJ00734	No Ruckles Branch	NAVAIR, Lakehurst, NJ	7	210	L	Note 7
NJ No Name No 2 (Club House Lake)	NJ00735	No Ruckles Branch	NAVAIR, Lakehurst, NJ	11	280	L	Note 7
Pickeral Pond Dam	TBP <sup>2</sup>	No Ruckles Branch	NAVAIR, Lakehurst, NJ				Note 7
STP Dam	TBP <sup>2</sup>	Ridgeway Branch Trib Toms River	NAVAIR, Lakehurst, NJ				Note 7a
Beaver Dam	TBP <sup>2</sup>	Manapagua Brook Trib Toms	NAVAIR, Lakehurst, NJ				Note 7

		River					
Dalton Dam	VA06112	Darrells Run	MCB Quantico, VA	25	160	S	Note 8
US Naval Proving Ground	VA09904	Gambo Creek	NSWC Dahlgren, VA	8	89	L	Note 2
Lunga Dam	VA17901	Beaverdam Run	MCB Quantico, VA	56	9600	H	Note 8a
Breckinridge Dam	VA17904	N Branch Chopawamsic Creek	MCB Quantico, VA	58	2670	S	Note 8a
Penniman Dam	VA19906	Trib King Creek	NSC Cheatham Annex, VA	21	296	L	Note 2
Beaver Dam	VA19907	Trib York River	Camp Peary, VA	10	178	L	Note 2

# APPENDIX 1 - DEPARTMENT OF THE NAVY 2002-2203 PROGRESS REPORT ON DAM SAFETY

Dam Name	NID <sup>1</sup> ID	River	Installation	NID	Height, ft	Dam Name	NID <sup>1</sup> ID	River
Bigler Mill Dam	VA19908	Eaton Creek	Camp Peary, VA	15	555	L		Note 2
Powell Dam	VA19909	Trib York River	Camp Peary, VA	16	101	L		Note 2
Skimino Pond	VA19910	Trib Skimino Creek	Camp Peary, VA	17	104	L		Note 2
Pond #11 Dam	VA19912	Trib King Creek	NWS Yorktown, VA	8	84	L		Note 2
Roosevelt Pond Dam	VA19913	Trib York River	NWS Yorktown, VA	11	89	L		Note 2
Cattail Lake	WA00154	Cattail Creek	Subase, Bangor, Wash	14	52	L		Note 2
Devils Hole	WA00155	Devils Creek	Subase, Bangor, Wash	13	69	L		Note 2
Sewage Lagoon Dam	WA00365	Offstream Hood Canal	Subase, Bangor, Wash	18	99	L		Note 2

<sup>1</sup> NID = National Inventory of

Dams

<sup>2</sup> TBP = To be provided



<b>Inspection Remarks</b>
Note 1: Phase I Inspection performed by A/E for MCB Camp Pendleton in April 1990. Each dam found to be in fair condition. For each dam A/E recommended additional technical studies.
Note 2: No record of any inspection on this dam
Note 3: Inspected by USACOE in 2000
Note 4: Subsequent to 1993 earthquake, Fena Dam Seismic Study was completed by A/E for Navy PWC Guam in June 1995. Report recommended development of Emergency Action Plan and examined feasibility of raising dam up to 5 feet.
Note 5: Inspected by Indiana Department of Natural Resources in April 1998 and found to be in fair condition overall.
Note 5a: Inspected by Indiana Department of Natural Resources in November 1999 and found to be in fair condition overall.
Note 6: Inspected by Mississippi Department on Environmental Quality in April 2003. Activity is in receipt of contractor proposal to perform various repairs. Phase I Inspection done previously by NAVFAC in September 1979.
Note 6a: Inspected by Mississippi Department on Environmental Quality in April 2003. Phase I Inspection done previously by NAVFAC in September 1979.
Note 7: Inspection performed by A/E for NAVAIR Lakehurst in November 2001. Dam found to be safe. Recommended repair work has been completed by Activity.
Note 7a: Inspection performed by A/E for NAVAIR Lakehurst in November 2001. Dam found to be safe. No repair work recommended in study
Note 8: Inspection performed by A/E for MCB Quantico in 1998 and dam found to be small, low hazard (versus significant hazard as indicated in NID)
Note 8a: Inspection performed by A/E for MCB Quantico in 1998. For Breckinridge and Lunga Dams A/E recommended additional technical studies along with development of Emergency Action Plan and Operation, Maintenance, Inspection Manual. Breckinridge Dam found to be high hazard (versus significant hazard as indicated in NID)